

ABSTRACT

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An aqueous carbon-containing unshaped refractory comprising a refractory material composed of 50 to 80% by weight of refractory aggregate having a particle diameter of greater than 45 μm and 20 to 50% by weight of fine powder having a particle diameter of 45 μm or less, wherein 15 to 60% by weight of the fine powder is a carbon black material of pH 7 to 9. Also disclosed is an aqueous carbon-containing unshaped refractory comprising 3 to 15% by weight based on the total weight of the refractory of a carbon black material having a specific surface area according to a nitrogen adsorption method of 10 to 30 m^2/g . The refractory may contain 0.02 to 0.03% by weight of β -naphthalenesulfonic acid-formaldehyde condensate sodium salt per 1% of the carbon black material. The aqueous carbon-containing unshaped refractory is excellent in corrosion resistance and spalling resistance.